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APPLICATION NO.	Fl	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/713,775	11/15/2000		Jae-Young Jung	12568-002001 / OPP 000771	3088
26161	7590	03/07/2003			
FISH & RIC		SON PC	EXAMINER		
225 FRANKLIN ST BOSTON, MA 02110				YEE, DEBORAH	
				ART UNIT	PAPER NUMBER
				1742	
			DATE MAILED: 03/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		9					
	Application No.	Applicant(s)					
Office Antique Comments	09/713,775	JUNG, JAE-YOUNG					
Offic Action Summary	Examiner	Art Unit					
	Deborah Yee	1742					
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated to the second patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may reply within the statutory minimum of to will apply and will expire SIX (6) Mutte, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 2	<u> 4 December 2002</u> .						
2a)⊠ This action is FINAL . 2b)□	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withd	rawn from consideration.						
5) Claim(s) is/are allowed.	•						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	provisional application has	been received.					
Attachment(s)	sons priority under 00 0.0.	33 122 411400 121.					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,3,5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlin et al (US Patent No.5,415,706).

Claims 2,4,6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlin et al(US Patent 5,415,706) as applied to claims 1,3,5 and 7 above, and further in view of English abstract of Japanese patent 402217444A.

Response to Arguments

Applicant's arguments filed December 24,2002 are not deemed persuasive. Scarlin discloses a composition containing 8-13%Cr and 0.05-2.0%Ni, which respectively overlap 10-19 or 12-16%Cr and 1-6%Ni recited in the rejected claims. It was argued that Scarlin teaches away from a Cr content exceeding 13% and prefers a Cr range is 8.5 –11%. Similarly, Scarlin teaches away from a Ni content over 2% and prefers a Ni range of 0.3-1%. It is the examiner's position that applicant still claims a broad Cr and Ni range which would include alloys containing less than 13%Cr and less than 2% Ni within the amounts taught by Scarlin. To distinguish claims over prior art, it is recommended to amend claims to recite a Cr lower limit of 13% and a Ni lower limit of 2%.

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In regard to the method claims, Scarlin discloses a tempering temperature of 780C which is higher than the recited tempering temperature of 350-575C. Applicant submitted a diagram to demonstrate that a steel containing 0.06%C and 12%Cr tempered at 780C vs. below 575C would have different Cr carbides. It is the examiner's position that one skilled in the art would expect a larger number of carbides to precipitate at a higher temperatures, and steel would have less ductility. To select the tempering temperature, would be a matter of routine optimization depending on desired strength, toughness and ductility desired, which is well within the skill of the artisan and productive of no new and unexpected results.

Furthermore, Examiner maintain her position that it would be obvious to incorporate Ti and/or Ta in to the Scarlin alloy in view of JP'444A because Ti and Ta are chemically equivalent to V and Nb which are already taught by the prior art, and therefore could be used interchangeably.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 703-308-1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-873-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

dy March 3, 2003

DESORAH VEE